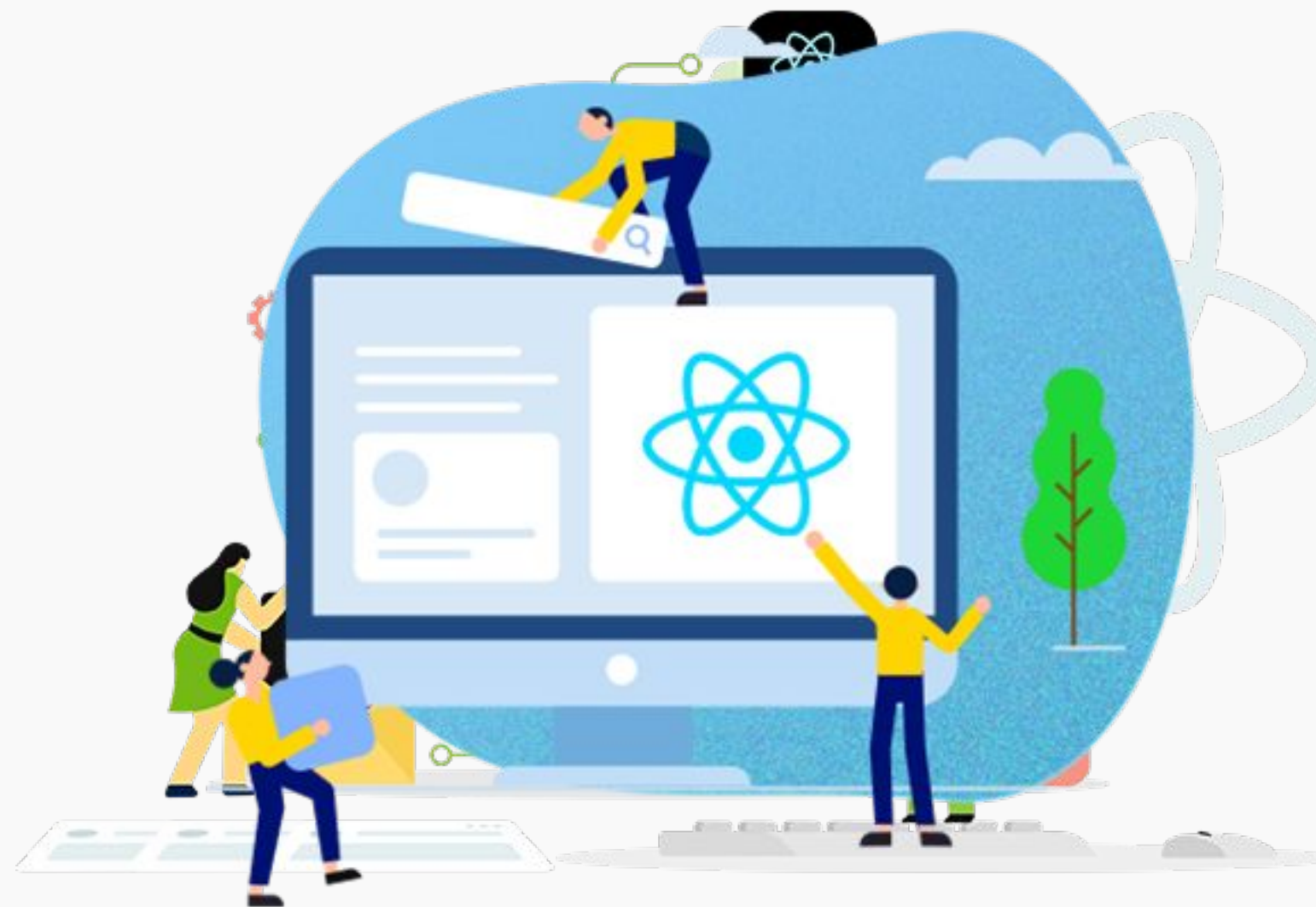


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Learning 3

# Introduction to React JS

*Build UI with components*



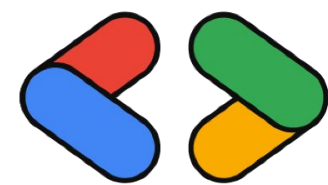
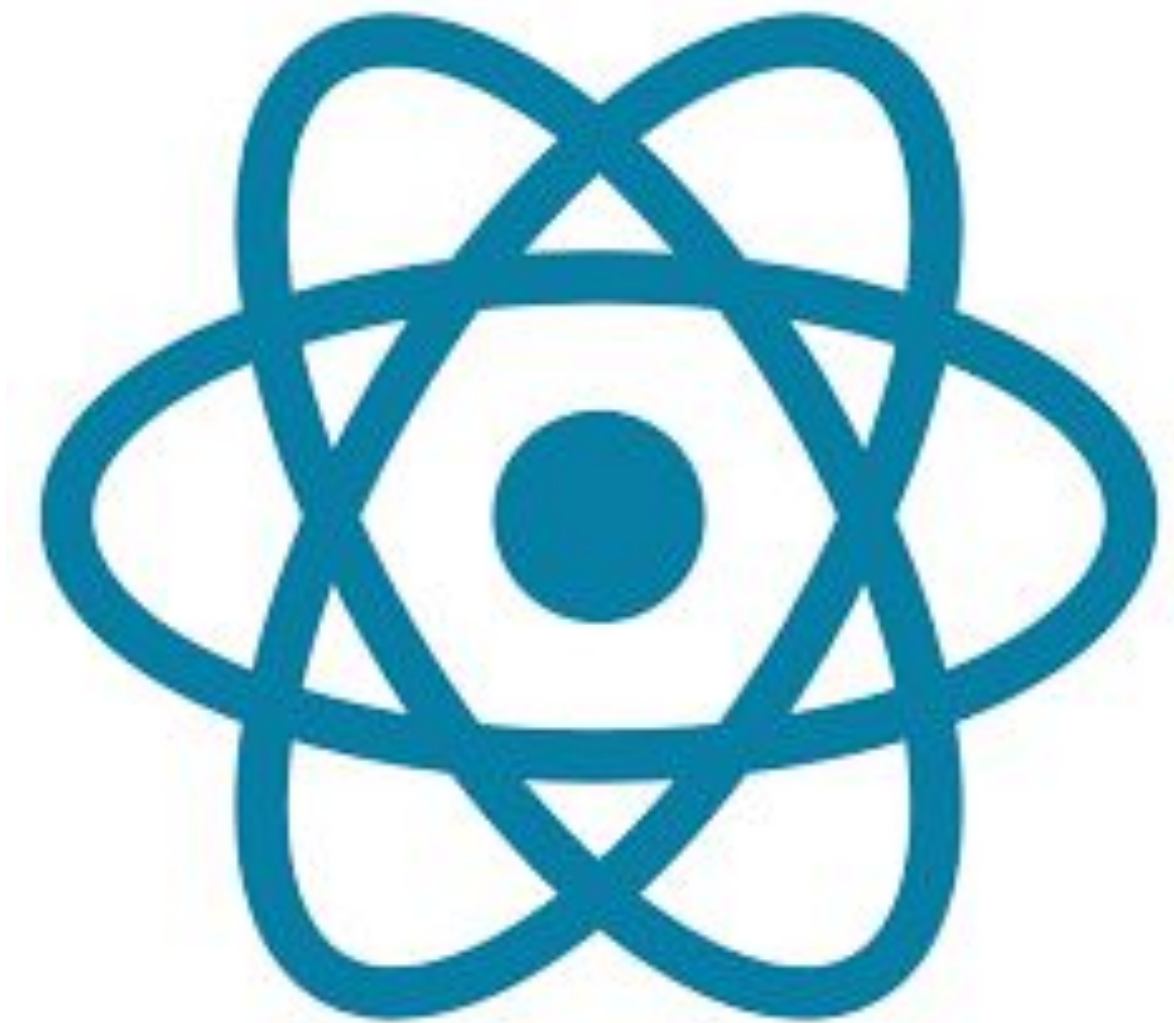
```
const org = interbyorg ? study.lead_organization === interbyorg : C  
const status = filterByStatus ? study.status === filterByStatus : true  
const matchStatus = {
```

```
function filterStudies({ studies, filterByOrg =  
  filterByOrg, filterByStatus = filterByStatus, filterByStatus = filterByStatus  
  filterByStatus = filterByStatus, filterByStatus = filterByStatus, filterByStatus = filterByStatus
```



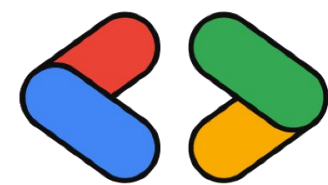
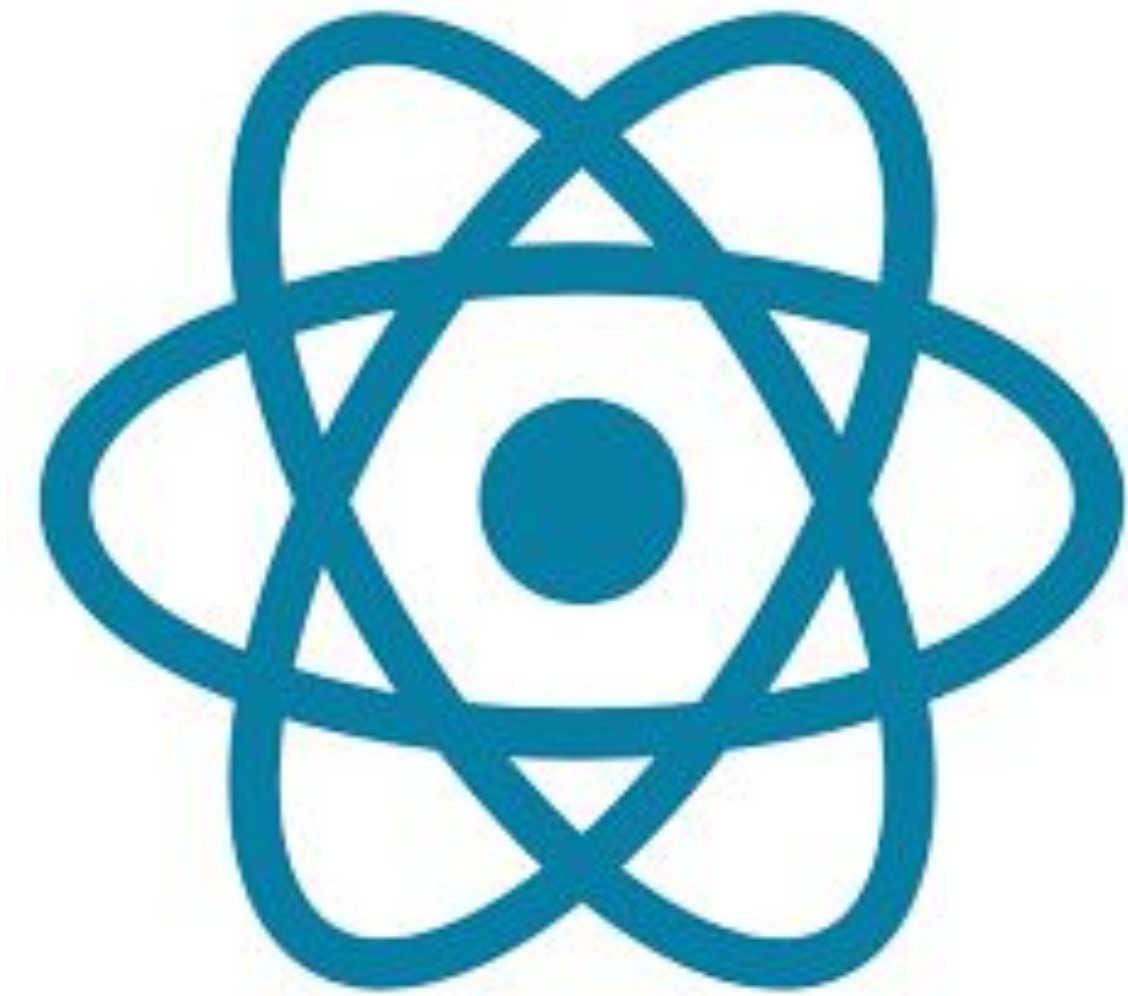
# What is React JS

- Library JavaScript untuk membangun UI
- Berbasis components
- Declarative UI



# SPA Concept

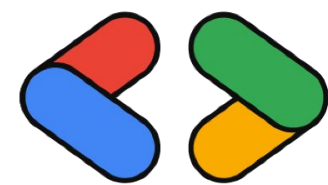
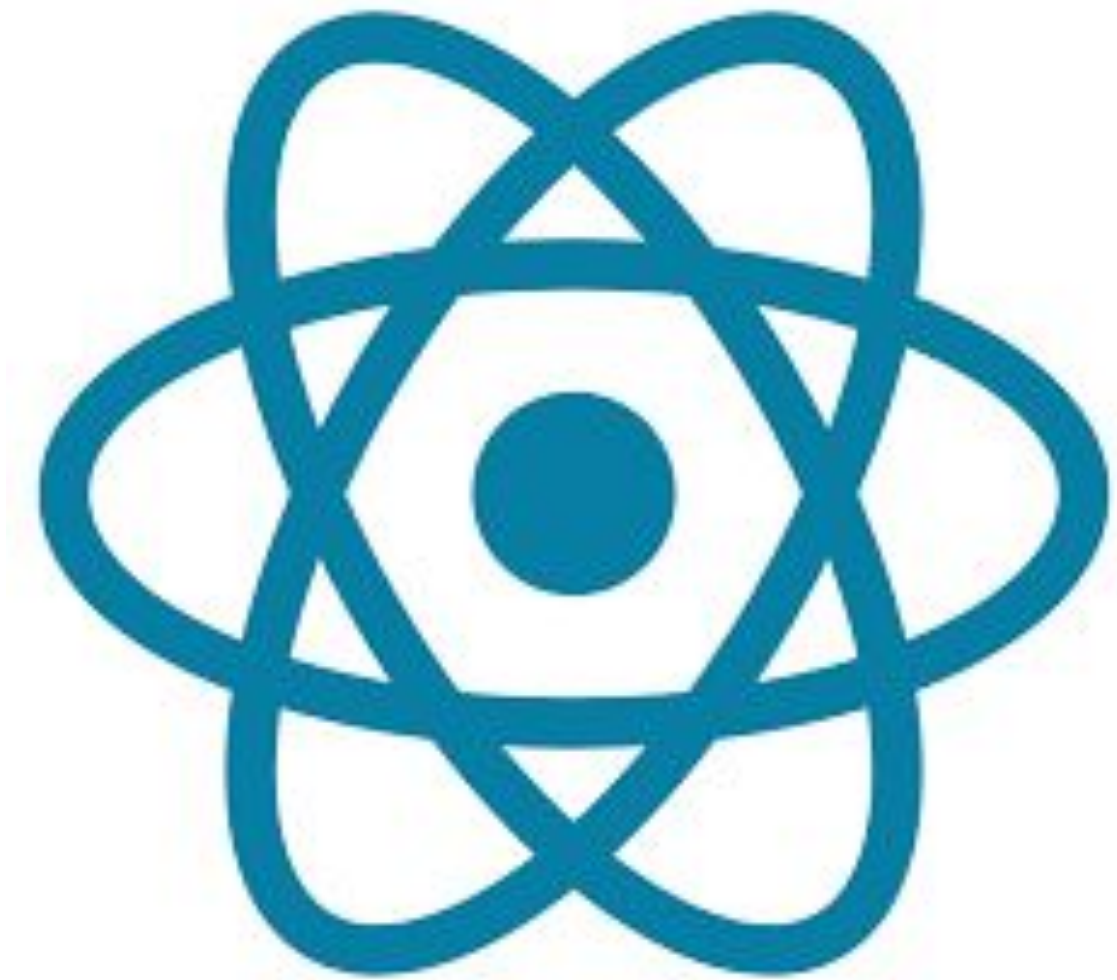
- Single Page Application
- Satu halaman *HTML*
- Konten berubah tanpa reload





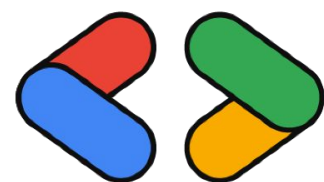
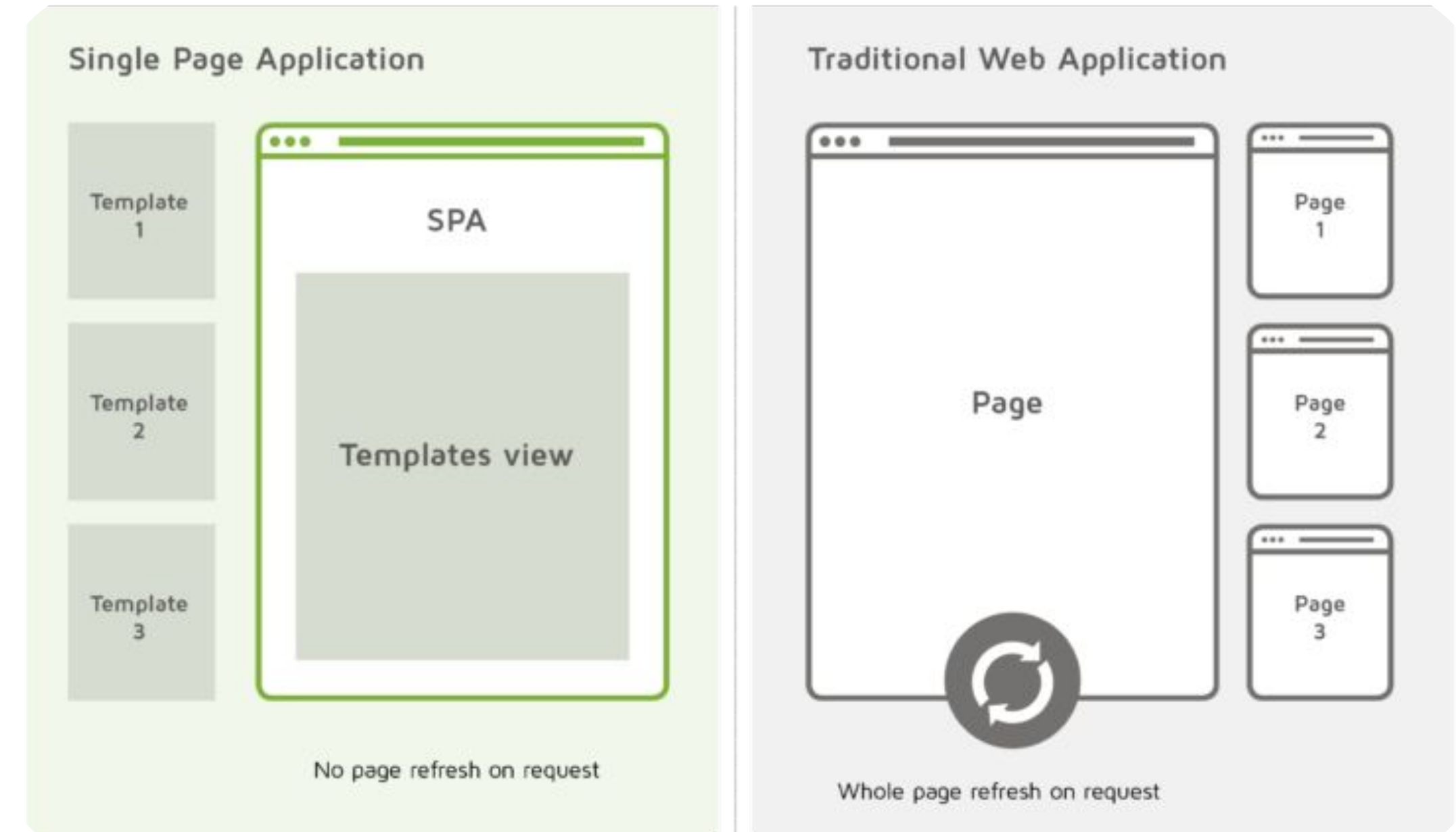
# Setup React Project

- Node.js terinstall
- Package Manager (NPM)
- Tooling (Vite)



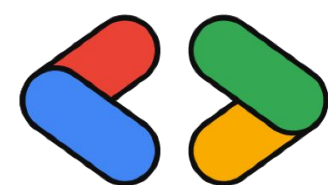
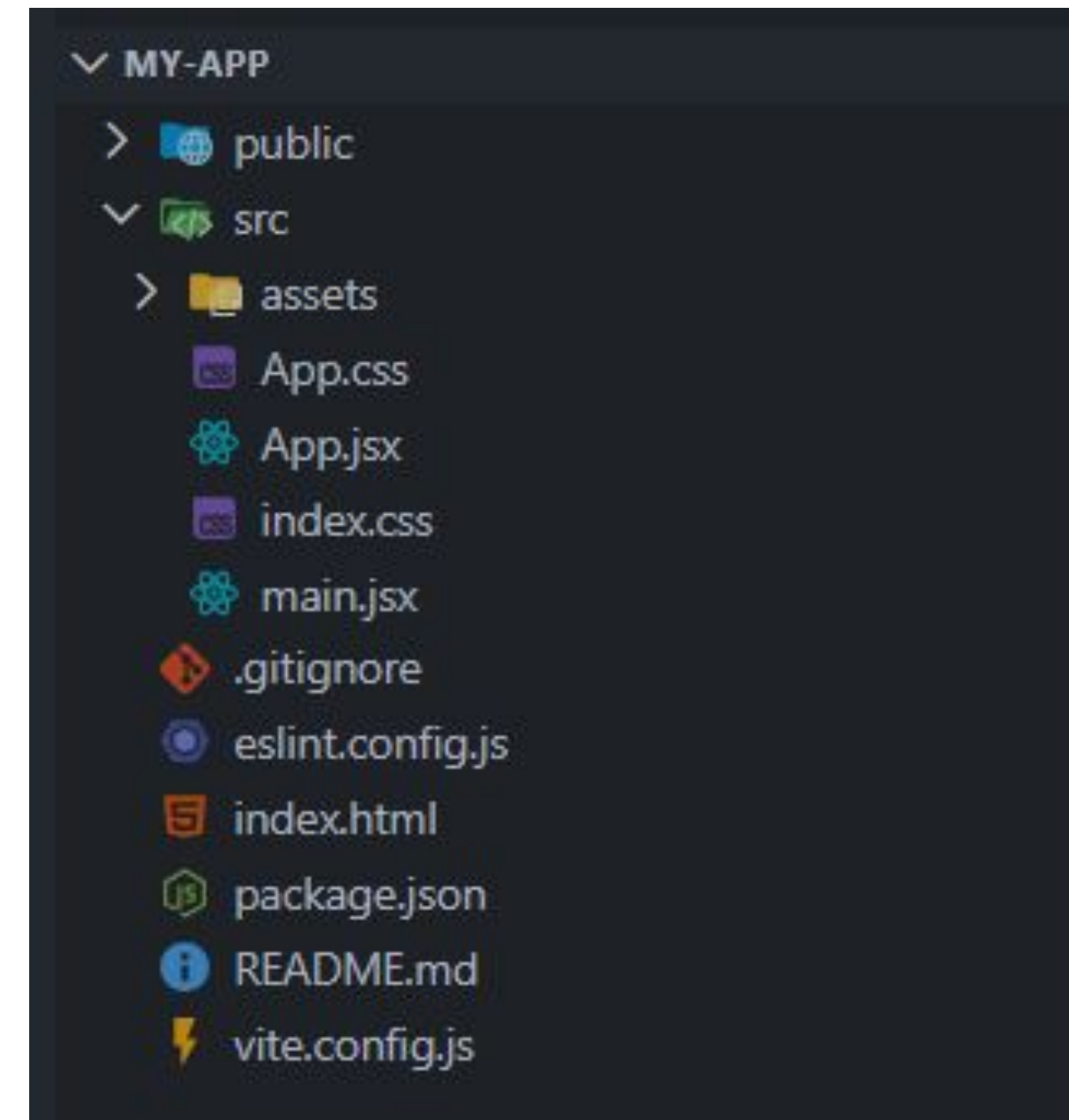
# SPA Concept

- Single Page Application
- Satu halaman *HTML*
- Konten berubah tanpa reload



# React Project Structure

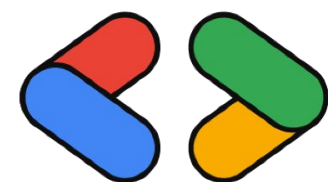
- *index.html* → *container*
- *src/* → *dapur utama*
- *main.jsx* → *entry point react*
- *app.jsx* → *komponen utama*





# JSX

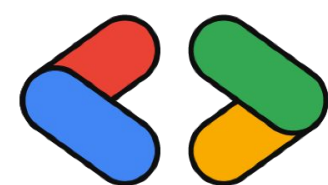
- JavaScript Syntax Extension
- Mirip HTML di dalam JavaScript
- Digunakan untuk mendeskripsikan UI



# JSX Rules

- Harus punya satu parent
- Gunakan *className* untuk styling
- Bisa pakai JavaScript expression

```
function Profile() {  
  const nama = "Ello";  
  return (  
    <div>  
      <h1 className="judul">Halo, {nama}!</h1>  
    </div>  
  );  
}
```





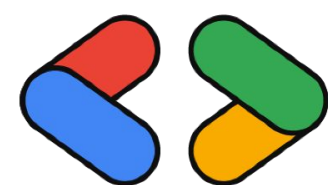
# Component Concept

- Komponen → bagian UI
- Berupa function
- Mengembalikan JSX

```
function Header() {  
  return <h1>Header</h1>  
}
```

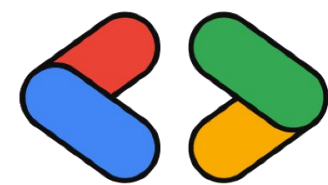
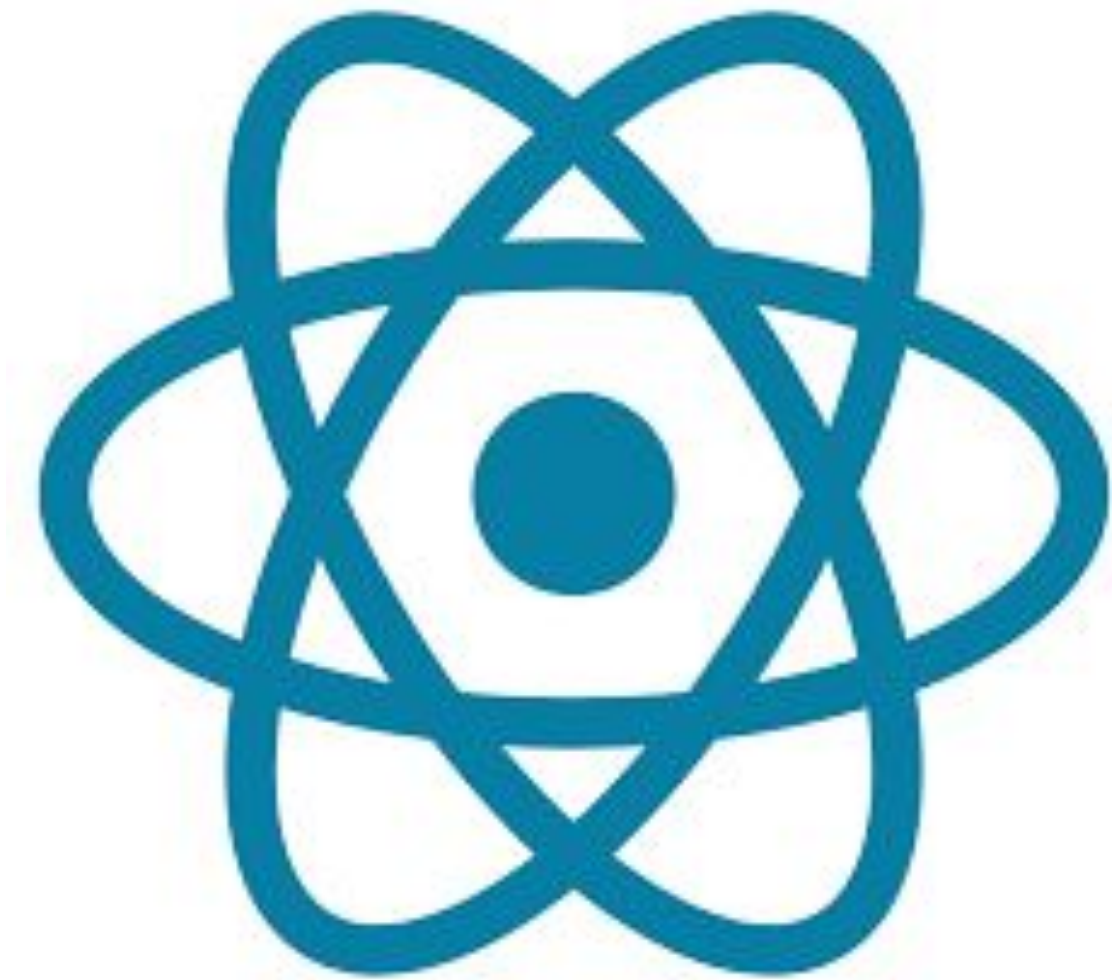
## Using Component

```
function App() {  
  return <Header />  
}
```



# How React Renders UI

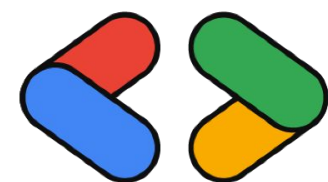
- UI berdasarkan data
- React me-render ulang saat data berubah
- Fokus ke hasil, bukan proses





# Initialize & Run Project

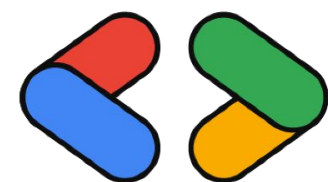
```
npm create vite@latest project-name  
npm install  
npm run dev
```



# Let's Code



*React Docs*



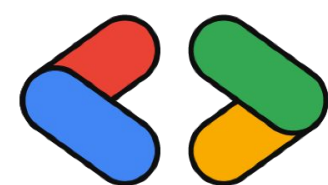
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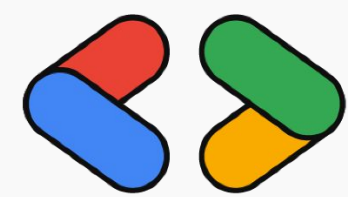
# Challenge! (FE Member Only\*)

1. Migrasikan tugas Tailwind CSS pertemuan sebelumnya menggunakan React JS
2. implementasikan penggunaan *components*
3. Kerjakan di repository github masing-masing
4. Lakukan pull request ke Frontend Development GDGoC UNSRI 25/26 untuk memasukkan link repo github anda di folder /3-introduction-to-react/task.txt

*Selamat Mencoba ~*



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# Thank You !

```
filterByOrg = filterByOrg ? study.lead_organization === filterByOrg : true  
filterByStatus = filterByStatus ? study.status === filterByStatus : true  
filterByStatus = filterByStatus ? study.status === filterByStatus : true  
filterByStatus = filterByStatus ? study.status === filterByStatus : true
```

```
function filterStudies({ studies, filterByOrg, filterByStatus }) {  
  return studies.filter(study => {  
    return filterByOrg === study.lead_organization &&  
    filterByStatus === study.status
```